

CLAIMS:

1. A method of synthesising a signal comprising sinusoids from encoded data, the encoded data comprising, for each of a plurality of consecutive time segments, one or more frequency values (f) representing sinusoids, and data identifying the time of occurrence of possible transients, the method comprising generating sinusoids with each of the one or more frequency values (f), and linking sinusoids across a plurality of consecutive segments, where segments with no transients are weighted with a normal window (W1, W2, W3) having a normal leading edge and a normal trailing edge, and where consecutive segments have a normal period of overlap (O) of their trailing edges and leading edges, respectively, and where segments in which the time of occurrence of a transient is identified, are weighted with a first modified window (W1m) having a modified trailing edge, and the following segment is weighted with a second modified window (W2m) having a modified leading edge, so that the modified trailing edge and the modified leading edge have a modified period of overlap (Om), which comprises the time of the occurrence of the transient, and which is shorter than the normal period of overlap (O), wherein the modified period of overlap (Om) depends on the frequency value (f).
 2. A method according to claim 1, wherein the modified period of overlap (Om) decreases with increasing frequency value (f).
 3. A method according to claim 1 or 2, wherein the modified period of overlap (Om) depends on the frequency value (f) substantially as $f^{1/c}$.
 4. A method according to claim 1 or 2, wherein two or more fixed values of the modified period of overlap (Om) are used for corresponding frequency intervals.
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5. An audio decoder for synthesising a signal comprising sinusoids from encoded data, the encoded data comprising, for each of a plurality of consecutive time segments, one or more frequency values (f) representing sinusoids, and data identifying the time of

occurrence of possible transients, the audio decoder being adapted to use the method of any one of claims 6-9.

6. An audio encoder for encoding a signal adapted to use the method of any one
5 of claims 1-4.